KS

EXHIBIT "1"

Solar PV cost reduction opportunities, excerpted from NREL ATB.

Source: NREL (National Renewable Energy Laboratory). 2019. *2019 Annual Technology Baseline*. Golden, CO: National Renewable Energy Laboratory. https://atb.nrel.gov/electricity/2019; Utility-scale PV tab.

- Modules
    - Increased module efficiencies and increased production-line throughput to decrease CAPEX; overhead costs on a per-kilowatt basis will go down if efficiency and throughput improvement are realized
    - Reduced wafer thickness or the thickness of thin-film semiconductor layers
    - Development of new semiconductor materials
    - Development of larger manufacturing facilities in low-cost regions
- Balance of system (BOS)
    - Increased module efficiency, reducing the size of the installation
    - Development of racking systems that enhance energy production or require less robust engineering
    - Integration of racking or mounting components in modules
    - Reduction of supply chain complexity and cost
        - Creation of standard packaged system design
        - Improvement of supply chains for BOS components in modules
- Improved power electronics
    - Improvement of inverter prices and performance, possibly by integrating microinverters
- Decreased installation costs and margins
    - Reduction of supply chain margins (e.g., profit and overhead charged by suppliers, manufacturer, distributors, and retailers); this will likely occur naturally as the U.S. PV industry grows and matures
    - Streamlining of installation practices through improved workforce development and training and developing standardized PV hardware
    - Expansion of access to a range of innovative financing approaches and business models
    - Development of best practices for permitting interconnection and PV installation such as subdivision regulations, new construction guidelines, and design requirements.

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EXHIBIT "2"

Table 1: Total Cost Results (in $1000)

	$0/ton CO2			$25/ton CO2		
	Low Gas	Base Gas	High Gas	Low Gas	Base Gas	High Gas
RP1	$1,397,881	$1,470,469	$1,622,415	$1,619,829	$1,693,271	$1,870,416
RP2	$1,389,066	$1,461,624	$1,612,190	$1,618,734	$1,693,466	$1,868,087
RP3	$1,391,707	$1,467,950	$1,634,829	$1,602,660	$1,679,692	$1,863,611
RP4	$1,400,022	$1,470,534	$1,621,990	$1,630,314	$1,704,266	$1,879,853
RP5	$1,426,530	$1,496,382	$1,643,927	$1,641,254	$1,711,419	$1,884,746
RP6	$1,413,238	$1,483,088	$1,629,308	$1,633,673	$1,705,055	$1,877,619
RP7	$1,397,653	$1,467,541	$1,613,882	$1,617,654	$1,689,211	$1,862,973
RP8	$1,427,213	$1,508,126	$1,700,900	$1,601,430	$1,680,729	$1,880,379
RP1-H	$1,388,402	$1,458,548	$1,607,686	$1,605,346	$1,676,376	$1,851,247
RP2-H	$1,379,551	$1,450,487	$1,598,935	$1,602,038	$1,674,410	$1,849,748
RP3-H	$1,382,137	$1,455,818	$1,619,997	$1,587,640	$1,661,713	$1,843,850
RP4-H	$1,405,684	$1,473,978	$1,620,727	$1,628,987	$1,699,312	$1,869,729
RP5-H	$1,418,921	$1,486,602	$1,629,465	$1,627,946	$1,696,393	$1,865,749
RP6-H	$1,404,063	$1,472,422	$1,615,795	$1,617,921	$1,687,168	$1,858,512
RP7-H	$1,394,497	$1,462,047	$1,604,954	$1,608,252	$1,677,727	$1,847,434
RP8-H	$1,421,639	$1,500,477	$1,688,667	$1,591,521	$1,669,144	$1,863,823
RP1-L	$1,403,707	$1,478,216	$1,634,876	$1,628,694	$1,705,402	$1,887,412
RP2-L	$1,390,508	$1,464,172	$1,618,356	$1,624,249	$1,701,205	$1,881,921
RP3-L	$1,390,784	$1,468,308	$1,639,268	$1,606,791	$1,685,469	$1,873,937
RP4-L	$1,415,912	$1,487,174	$1,640,400	$1,651,214	$1,727,339	$1,902,263
RP5-L	$1,429,636	$1,500,544	$1,650,943	$1,647,671	$1,720,163	$1,895,594
RP6-L	$1,413,589	$1,486,136	$1,635,641	$1,638,858	$1,713,899	$1,890,321
RP7-L	$1,403,663	$1,474,717	$1,623,625	$1,629,328	$1,702,969	$1,877,627
RP8-L	$1,437,520	$1,519,550	$1,716,437	$1,616,809	$1,697,297	$1,901,681

Table 2: Total Cost Ranks

	$0/ton CO2			$25/ton CO2		
	Low Gas	Base Gas	High Gas	Low Gas	Base Gas	High Gas
RP1	10	10	11	13	11	12
RP2	4	4	4	12	12	10
RP3	7	8	15	5	6	7
RP4	11	11	10	19	18	16
RP5	21	20	20	22	21	19
RP6	16	16	13	20	19	14
RP7	9	7	5	10	10	6
RP8	22	23	23	3	7	17
RP1-H	3	3	3	6	4	4
RP2-H	1	1	1	4	3	3
RP3-H	2	2	8	1	1	1
RP4-H	15	13	9	17	15	11
RP5-H	19	18	14	15	13	9
RP6-H	14	12	6	11	9	5
RP7-H	8	5	2	8	5	2
RP8-H	20	21	22	2	2	8
RP1-L	13	15	16	16	20	20
RP2-L	5	6	7	14	16	18
RP3-L	6	9	18	7	8	13
RP4-L	18	19	19	24	24	24
RP5-L	23	22	21	23	23	22
RP6-L	17	17	17	21	22	21
RP7-L	12	14	12	18	17	15
RP8-L	24	24	24	9	14	23

Table 3: Range (in $1000) and Ranks

	Range	Rank
RP8-H	$442,184	1
RP5-H	$446,828	2
RP7-H	$452,937	3
RP8	$453,166	4
RP6-H	$454,449	5
RP5	$458,216	6
RP3-H	$461,713	7
RP1-H	$462,845	8
RP4-H	$464,045	9
RP8-L	$464,161	10
RP6	$464,381	11
RP7	$465,320	12
RP5-L	$465,958	13
RP2-H	$470,197	14
RP3	$471,904	15
RP1	$472,535	16
RP7-L	$473,964	17
RP6-L	$476,732	18
RP2	$479,021	19
RP4	$479,831	20
RP3-L	$483,153	21
RP1-L	$483,705	22
RP4-L	$486,351	23
RP2-L	$491,413	24

Table 4: Max Regret (in $1000) and Ranks

	Max Regret	Rank
RP2-H	$14,398	1
RP1-H	$17,706	2
RP7-H	$20,612	3
RP3-H	$21,062	4
RP7	$30,014	5
RP6-H	$30,281	6
RP2	$31,753	7
RP1	$32,189	8
RP3	$35,894	9
RP2-L	$39,492	10
RP5-H	$40,306	11
RP3-L	$40,333	12
RP4-H	$41,347	13
RP7-L	$41,688	14
RP4	$42,674	15
RP1-L	$43,689	16
RP6	$46,033	17
RP6-L	$52,186	18
RP5	$53,614	19
RP5-L	$60,031	20
RP4-L	$65,626	21
RP8-H	$89,732	22
RP8	$101,965	23
RP8-L	$117,502	24